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H. Robert Burger is Achilles Professor of Geology at Smith College in Northampton, Massachusetts. His

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research focuses on the evolution of ancient mountain belts in southwestern Montana, applying geophysics to further elucidate the structural evolution of the Connecticut Valley in Massachusetts, and applies Geographic Information Systems (GIS) to mitigate natural hazards.

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[Henry Robert Burger; Anne F Sheehan; Craig H Jones] --

"Introduction to Applied Geophysics covers the fundamental principles and

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common methods of exploration geophysics, preparing students for field study of the shallow subsurface.

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Introduction to Applied Geophysics: Exploring the Shallow Subsurface, by Burger, Sheehan, and Jones View the help topics for the software (includes some FAQs; also lists some changes for updated versions of applications)

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9780393926378: Introduction to Applied Geophysics ...

Introduction to Applied Geophysics: Exploring the Shallow Subsurface. H. Robert Burger Anne F. Sheehan Craig H. Jones. For details and inquiries about this test bank/Solutions manual Contact ATFALO2 (AT)YAHOO (DOT)COM.

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Introduction to Applied Geophysics: Exploring the Shallow Subsurface, by Burger, Sheehan, and Jones p. 14, Table 2.1 - the two lines for Granite

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(MA) have incorrect values. p. 23,
Figure 2.11. The angles from the
horizontal should extend from
horizontal to line AB on the left (? 1)
and to line YX on the right (? 2).

Burger et al., errata sheet - welcome | CIRES

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Exploring the Shallow Subsurface
[With CDROM] Offering a chapter on
each of the most common methods of
exploration, the text explains in detail
how each method is performed and
discusses that method 's geologic,
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applications.

Offering a chapter on each of the most
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text explains in detail how each method is performed and discusses that method s geologic, engineering, and environmental applications. In addition to ample examples, illustrations, and applications throughout, each chapter concludes with a problem set. The text is also accompanied by the Field Geophysics Software Suite, an innovative CD-ROM that allows students to experiment with refraction and reflection seismology, gravity, magnetics, electrical resistivity, and ground-penetrating radar methods of exploration."

This is the completely revised and updated version of the popular and highly regarded textbook, Applied Geophysics. It describes the physical methods involved in exploration for

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hydrocarbons and minerals, which include gravity, magnetic, seismic, electrical, electromagnetic, radioactivity, and well-logging methods. All aspects of these methods are described, including basic theory, field equipment, techniques of data acquisition, data processing and interpretation, with the objective of locating commercial deposits of minerals, oil, and gas and determining their extent. In the fourteen years or so since the first edition of Applied Geophysics, many changes have taken place in this field, mainly as the result of new techniques, better instrumentation, and increased use of computers in the field and in the interpretation of data. The authors describe these changes in considerable detail, including improved methods of solving the inverse

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problem, specialized seismic methods, magnetotellurics as a practical exploration method, time-domain electromagnetic methods, increased use of gamma-ray spectrometers, and improved well-logging methods and interpretation.

This book provides an approachable and concise introduction to seismic theory, designed as a first course for undergraduate students. It clearly explains the fundamental concepts, emphasizing intuitive understanding over lengthy derivations. Incorporating over 30% new material, this second edition includes all the topics needed for a one-semester course in seismology. Additional material has been added throughout including numerical methods, 3-D ray tracing, earthquake location, attenuation,

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normal modes, and receiver functions. The chapter on earthquakes and source theory has been extensively revised and enlarged, and now includes details on non-double-couple sources, earthquake scaling, radiated energy, and finite slip inversions. Each chapter includes worked problems and detailed exercises that give students the opportunity to apply the techniques they have learned to compute results of interest and to illustrate the Earth's seismic properties. Computer subroutines and datasets for use in the exercises are available at www.cambridge.org/shearer.

This book provides a comprehensive introduction to the field of geochemistry. The book first lays out the 'geochemical toolbox': the basic principles and techniques of

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modern geochemistry, beginning with a review of thermodynamics and kinetics as they apply to the Earth and its environs. These basic concepts are then applied to understanding processes in aqueous systems and the behavior of trace elements in magmatic systems. Subsequent chapters introduce radiogenic and stable isotope geochemistry and illustrate their application to such diverse topics as determining geologic time, ancient climates, and the diets of prehistoric peoples. The focus then broadens to the formation of the solar system, the Earth, and the elements themselves. Then the composition of the Earth itself becomes the topic, examining the composition of the core, the mantle, and the crust and exploring how this structure originated. A final

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chapter covers organic chemistry, including the origin of fossil fuels and the carbon cycle's role in controlling Earth's climate, both in the geologic past and the rapidly changing present. Geochemistry is essential reading for all earth science students, as well as for researchers and applied scientists who require an introduction to the essential theory of geochemistry, and a survey of its applications in the earth and environmental sciences. Additional resources can be found at: <http://www.wiley.com/go/white/geochemistry>

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PRINCIPAL SYMBOLS AND UNITS
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2.

This new edition of the well-established Kearey and Brooks text is fully updated to reflect the important developments in geophysical methods since the production of the previous edition. The broad scope of previous editions is maintained, with even greater clarity of explanations from the revised text and extensively revised figures. Each of the major geophysical methods is treated systematically developing the theory behind the method and detailing the instrumentation, field data acquisition techniques, data processing and interpretation methods. The practical application of each method to such diverse exploration applications as petroleum, groundwater, engineering, environmental and forensic is shown

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by case histories. The mathematics required in order to understand the text is purposely kept to a minimum, so the book is suitable for courses taken in geophysics by all undergraduate students. It will also be of use to postgraduate students who might wish to include geophysics in their studies and to all professional geologists who wish to discover the breadth of the subject in connection with their own work.

The primary focus of this text is on the process of cartographic modeling and GIS modeling. The text goes beyond cartographic modeling to incorporate supplementary or complementary technologies and logics to show that spatio-temporal modeling is not limited to cartographic modeling, nor to Map Algebra. DeMers consistent, friendly

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and engaging style has been highly praised by reviewers of this title as well as users of his market leading Fundamentals of Geographic Information Systems.

This scholarly text provides an introduction to the numerical methods used to model partial differential equations, with focus on atmospheric and oceanic flows. The book covers both the essentials of building a numerical model and the more sophisticated techniques that are now available. Finite difference methods, spectral methods, finite element method, flux-corrected methods and TVC schemes are all discussed. Throughout, the author keeps to a middle ground between the theorem-proof formalism of a mathematical text and the highly empirical approach

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found in some engineering publications. The book establishes a concrete link between theory and practice using an extensive range of test problems to illustrate the theoretically derived properties of various methods. From the reviews: "...the books unquestionable advantage is the clarity and simplicity in presenting virtually all basic ideas and methods of numerical analysis currently actively used in geophysical fluid dynamics." Physics of Atmosphere and Ocean

This ground-breaking work is the first to cover the fundamentals of hydrogeophysics from both the hydrogeological and geophysical perspectives. Authored by leading experts and expert groups, the book starts out by explaining the

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fundamentals of hydrological characterization, with focus on hydrological data acquisition and measurement analysis as well as geostatistical approaches. The fundamentals of geophysical characterization are then at length, including the geophysical techniques that are often used for hydrogeological characterization. Unlike other books, the geophysical methods and petrophysical discussions presented here emphasize the theory, assumptions, approaches, and interpretations that are particularly important for hydrogeological applications. A series of hydrogeophysical case studies illustrate hydrogeophysical approaches for mapping hydrological units, estimation of hydrogeological parameters, and monitoring of

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hydrogeological processes. Finally, the book concludes with hydrogeophysical frontiers, i.e. on emerging technologies and stochastic hydrogeophysical inversion approaches.

Many text books have been written on the subject "Exploration Geophysics". The majority of these texts focus on the theory and the mathematical treatment of the subject matter but lack treatment of practical aspects of geophysical exploration. This text is written in simple English to explain the physical meaning of jargon, or terms used in the industry. It describes how seismic data is acquired in 2-D and 3-D, how they are processed to convert the raw data to seismic vertical and horizontal cross sections, that are geologically meaningful, and how these and other data are interpreted to

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delineate a prospect. Workshops are included after each chapter and are designed to reinforce learning of the concepts presented. Key Features:
Written in simple easy to understand language Heavily illustrated to aid in understanding the text End of chapter "Key words and workshop" The text includes several appendices and answers for the selected workshop problems

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